## **CONTENTS OF 99B**

Vol. 99B, No. 1.

Review

Review		
U. Anthoni, C. Christophersen, L. Hougaard and P. H. Nielsen	1	Quaternary ammonium compounds in the biosphere—an example of a versatile adaptive strategy
Mini-Review		
Theodore T. Herskovits and Mary G. Hamilton	19	Higher order assemblies of molluscan hemocyanins
General Papers	April	
L. Swevers, J. G. D. Lambert and A. De Loof	35	Metabolism of vertebrate-type steroids by tissues of three crustacean species
E. Fenouil and Ph. Roch	43	Evidence and characterization of lysozyme in six species of freshwater crayfishes from Astacidae and Cambaridae families
Marek S. Ziętara and Edward F. Skorkowski	51	Unusual expression of the threespine stickleback (Gasterosteus aculeatus) lactate dehydrogenase isoenzymes and partial characterization of purified LDH-A <sub>4</sub>
Bernard Fournier	57	Neuroparsins stimulate inositol phosphate formation in locust rectal cells
M. Garcia-Gil, G. Cipollini, M. Cattani, D. Bottai and M. Brunelli	65	Protein kinase C activity in the central nervous system of the leech, Hirudo medicinalis
Yoshiko Saitoh, Hiroyuki Kawahara, Hidenari Miyamatsu and Hideyoshi Yokosawa	71	Comparative studies on proteasomes (multicatalytic protein- ases) isolated from spermatozoa and eggs of sea urchins
P. A. Voogt, P. J. den Besten and M. Jansen	77	Steroid metabolism in relation to the reproductive cycle in Asterias rubens L.
Nelson Carvajal, Eduardo Kessi, Claudio Torres, Oscar Marín, Viviana Torres, Alejandro Campos and Claudia Posada	83	Properties and possible role of malate dehydrogenase in the foot muscle of the sea mollusc Concholepas concholepas (Gastropoda: Muricidae)
Douglas P. Butts, Karl E. Espelie and Henry R. Hermann	87	Cuticular hydrocarbons of four species of social wasps in the subfamily Vespinae: Vespa crabro L., Dolichovespula maculata (L.), Vespula squamosa (Drury), and Vespula maculifrons (Buysson)
Eibai Lee, Yasuhiro Miki and Kimio Kariya	93	Subunit selective alteration of hepatic glutathione transferases in spontaneously hypertensive rats
Carmel G. Teahan, Hugh A. McKenzie and Mervyn Griffiths	99	Some monotreme milk "whey" and blood proteins
A. Manouras, N. K. Karamanos, T. Tsegenidis and C. A. Antonopoulos	119	Isolation and chemical characterization of two acid carbo- hydrates from the sea urchin shell, extraction and fractionation of their protein complexes
Jean P. Raffin and Marie T. Thebault	125	A specific AMP deaminase assay and its application to tissue homogenates

Ulrich Knipp and Ernst Zebe	129	In vivo investigations on the metabolism of amino acids in the medicinal leech Hirudo medicinalis
Chul Yong Song and Ajay A. Rege	137	Cysteine proteinase activity in various developmental stages of Clonorchis sinensis: a comparative analysis
Tatsuo Muramatsu, Keiichi Hiramoto and Jun-ichi Okumura	141	Changes in ovalbumin and protein synthesis in vivo in the magnum of laying hens during the egg formation cycle
Wayne R. Patterson and John H. Cissik	147	A comparison of human and canine platelet fatty acid composition
T. G. Baby and S. Hayashi	151	Hepatic ornithine decarboxylase from the frog, Rana negro- maculata: dietary induction, purification and some properties
Arno R. Schwantes, Grant R. Bartlett and Maria Luiza B. Schwantes	157	The hemoglobin of Geophagus brasiliensis (Cichlidae)
Kunihiko Konno	161	Thiols in scallop (Patinopecten yessoensis) myosin and regulatory light chain binding
Ellie O. Osir, Gopalan C. Unnithan and Glenn D. Prestwich	165	Juvenile hormone binding to a 500-K diapause-associated protein of the stem-borer, Busseola fusca
Risako Matsui, Masami Ishida and Shigeru Kimura	171	Characterization of an $\alpha 3$ chain from the skin Type I collagen of chum salmon (Oncorhynchus keta)
Belinda K. Howell and Anthony D. Matthews	175	Environmental temperature adaptation of fish sarcoplasmic reticulum: a differential scanning calorimetric study
O. J. Mesna, IL. Steffensen, H. Hjertholm, H. E. Heier and R. A. Andersen	181	Effect of the metal in the reaction between metallothionein and antimetallothionein antibody
René Castillo and Geneviève Negre-Sadargues	187	Effect of eyestalk ablation on the metabolism of carotenoid pigments of the hermit crab Clibanarius erythropus Latreille (1818) (Crustacea Decapoda Anomoura)
Toshihiko Nagase, Toshihiro Sugiyama, Sumio Kawata, Seiichiro Tarui, Harold F. Deutsch and Naoyuki Taniguchi	193	Analyses of polypeptides in the liver of a novel mutant (LEC rats) to hereditary hepatitis and hepatoma by two-dimensional gel electrophoresis: identification of p29/6.8 as carbonic anhydrase III and triosephosphate isomerase
Helmut Goerke, Rolf Emrich, Kurt Weber and Jean-Claude Duchêne	203	Concentrations and localization of brominated metabolites in the genus <i>Thelepus</i> (Polychaeta: Terebellidae)
Eigoro Tazawa, Akiko Fujiwara and Ikuo Yasumasu	207	Activation of CO-insensitive respiration in echiuroid eggs by light irradiation at various wavelengths
G. H. Sams, B. M. Hargis and P. S. Hargis	213	Identification of two lipid binding proteins from liver of Gallus domesticus
Yasuki Sato and Toyoo Aikawa	221	Adenosine deaminase in the adductor muscle of the scallop, Patinopecten yessoensis
Ricardo J. Pollero, María del R. González Baró and Carlos E. Irazú	233	Lipid classes' consumption related to fasting and thermal stress in the shrimp Macrobrachium borellii
Paul J. Harms, Guo-Fen Tu, Samantha J. Richardson, Angela R. Aldred, Anthony Jaworowski and Gerhard Schreiber	239	Transthyretin (prealbumin) gene expression in choroid plexus is strongly conserved during evolution of vertebrates

General Papers		
Andrea Santulli, Lucia Cusenza, Alfonso Modica, Amelia Curatolo and Vincenzo D'Amelio	251	Fish plasma lipoproteins—comparative observations in Serranides and Sparides
G. Koss, M. Losekam, E. Schüler and I. Schreiber	257	The hepatic glutathione content and glutathione S-transferase activity in the pike (Esox lucius L.) and rat
Jay R. Leverone, Carl A. Luer and John M. Lawrence	259	The effect of cations on the specific activities of pyruvate kinase and glucose-6-phosphate dehydrogenase of <i>Luidia clathrata</i> (Say) (Echinodermata: Asteroidea)
S. Huynh, H. Oulhaj, J. Bocquet and A. Nouvelot	265	Metabolic utilization of linoleate and $\alpha$ -linolenate in cultured Sertoli cells
Moises Agosin and Jayanthi Srivatsan	271	Role of microsomal cytochrome P-450 in the formation of ecdysterone in larval house fly
Augusto E. Serrano, Jr and Fumio Nagayama	275	Liver 3-hydroxyanthranilic acid oxygenase activity in rainbow trout (Oncorhynchus mykiss)
Augusto E. Serrano, Jr and Fumio Nagayama	281	Inhibition studies on liver arylformamidases of rainbow trout and cattle
Steven D. Aird and Nelson Jorge da Silva, Jr	287	Comparative enzymatic composition of Brazilian coral snake (Micrurus) venoms
Zulfiqar A. Malik, Pramjit S. Tappia, Laurence A. De Netto, Keith Burdett, Raul Sutton and Martin J. Connock	295	Properties of ATPase activity associated with peroxisomes of rat and bovine liver
Shinji Shibanoki, Susan B. Weinberger, Duncan Beniston, Gery Schulteis, Edward L. Bennett, Mark R. Rosenzweig, Koichi Ishikawa and Joe L. Martinez, Jr	301	Hydrolysis of [Leu]enkephalin by chick brain in vitro
Tatsuo Suzuki and Sadao Miyata	307	3-Hydroxyretinol in the rhodopsin-porphyropsin retina of an invertebrate ( <i>Procambarus clarkii</i> )
Yasutake Shimizu and Masatoshi Suzuki	313	The relationship between red cell aging and enzyme activities in experimental animals
Paul Trayhurn, Jacqueline S. Keith, Paul A. Racey and Allison M. Burnett	317	Immunological identification of uncoupling protein in inter- scapular "brown" adipose tissue of suckling and adult pipistrelle bats ( <i>Pipistrellus pipistrellus</i> )
M. P. Ennis, G. B. Irvine and C. H. Williams	321	Aminopeptidase activities present in tissues of Helix aspersa
Bjarni Ásgeirsson and Jón Bragi Bjarnason	327	Structural and kinetic properties of chymotrypsin from Atlantic cod (Gadus morhua). Comparison with bovine chymotrypsin
Hidenori Kai, Shinya Doi, Takashi Miwa and Masaaki Azuma	337	Discontinuity in temperature dependency of esterase A4 activation in vitro in relation to the diapause-duration timer
Seiichi Ando and Mutsuo Hatano	341	Distribution of carotenoids in the eggs from four species of salmonids
Masanao Katagiri, Hiromasa Tojo, Kihachiro Horiike and Toshio Yamano	345	Immunochemical relationship of D-amino acid oxidases in various tissues and animals
Nget-Hong Tan and Gnanajothy Ponnudurai	351	A comparative study of the biological properties of some sea snake venoms

M. J. Mancebo, M. Treviño and J. Espinosa	355	Effect of temperature on the adenylate cyclase activity of Mytilus galloprovincialis mantle tissue
Marianna Turkiewicz, Edward Galas and Halina Kalinowska	359	Collagenolytic serine proteinase from Euphausia superba Dana (Antarctic krill)
Angelines J. Santa Cecilia, Miguel A. Chinchetru and Pedro Calvo	373	Purification and characterization of different "acid" $\beta$ - galactosidases from sheep kidney
Akira Ito, Yoshifumi Itoh, Takashi Sato, Yo Mori, Ko Suzuki and Hideaki Nagase	381	Identification of rabbit uterine cervical procollagenase activator as rabbit matrix metalloproteinase 3 (stromelysin)
S. Raghupathi Rami Reddy, Claude Roustan and Yves Benyamin	387	Purification and properties of two molecular forms of arginine kinase from the adductor muscle of the scallop, <i>Pecten maximus</i>
Nin-Nin Chuang, Che-Chung Yeh and Kung-Shih Lin	395	The basic isoelectric form of $\alpha$ -L-fucosidase from the hepatopancreas of the shrimp <i>Penaeus monodon</i> (Crustacea: Decapoda)
Karel Holada, Jan Evangelista Dyr, Jiří Suttnar and Jan Šimák	399	Comparison of rat and human major platelet glycoproteins
Motoko Ikeda, Toshinobu Yaginuma, Michihiro Kobayashi and Okitsugu Yamashita	405	cDNA cloning, sequencing and temporal expression of the protease responsible for vitellin degradation in the silkworm, Bombyx mori
Jennifer J. Clark, Toni L. Ilgen, Marcy F. Haire and Donald L. Mykles	413	Differential effects of oleic acid, sodium dodecyl sulfate, and protease inhibitors on the endopeptidase activities of the lobster multicatalytic proteinase
Haruhiko Toyohara, Kohsei Ito, Masashi Ando, Masato Kinoshita, Yutaka Shimizu and Morihiko Sakaguchi	419	Effect of maturation on activities of various proteases and protease inhibitors in the muscle of Ayu (Plecoglossus altivelis)
Saleh Darawshe and Ezra Daniel	425	Structure of the polypeptide chain of extracellular hemoglobin from the nematode Ascaris suum
Lori C. St. John, Frank P. Bell, Ferenc J. Kezdy, Anne Vosters, Satish K. Sharma, John H. Kinner and Clark W. Smith	431	Production of an antibody to arterial fatty acid-binding protein (FABP) using a synthetic peptide as the antigen
Hiroshi Yamamoto, Masaaki Azuma and Masaharu Eguchi	437	Further characterization of alkaline phosphatase isozymes in the silkworm midgut: effects of amino acids and metal ions and comparison of sugar chains
Massimo Dal Monte, Isabella Andreini, Roberto Revoltella and Paolo Pelosi	445	Purification and characterization of two odorant-binding pro- teins from nasal tissue of rabbit and pig
Svend Olav Andersen	453	Cuticular proteins from the shrimp, Pandalus borealis
Masatoshi Mita	459	Methylation during 1-methyladenine production by starfish ovarian follicle cells
Gad Degani and Yael Levcovitch	463	Electrophoretic variation in some cichlid species in Israel
L. Hougaard, U. Anthoni, C. Christophersen, C. Larsen and P. H. Nielsen	469	Characterization and quantitative estimation of quaternary ammonium compounds in marine demosponges
Shigeru Kimura, Yoshirou Miyauchi and Naoyuki Uchida	473	Scale and bone Type I collagens of carp (Cyprinus carpio)
	477	7 Announcement

Mini-Review		
Steven W. Johnson and Jack A. Alhadeff	479	Mammalian α-L-fucosidases
General Papers		
L. H. Teo and E. H. Lim	489	Some properties of the trehalase from the digestive gland of the green mussel, <i>Perna viridis</i> L.
Fulvia Basaglia	495	Interspecific gene differences and phylogeny of the Sparidae family (Perciformes, Teleostei), estimated from electrophoretic data on enzymatic tissue-expression
Ivan Yu. Sakharov	509	Purification of alkaline phosphatase from the intestinal content of common seal ( <i>Phoca vitulina larga</i> ) by immunoaffinity chromatography
Femi Kayode Agboola and Adeyinka Afolayan	513	Purification and some properties of pyruvate kinase from the skeletal muscle of African land tortoise Kinixys erosa (Linn)
A. Aceto, C. Di Ilio, T. Bucciarelli, C. Pantani, M. Dell'Agata, G. Pannunzio and G. Federici	523	Characterization of glutathione transferase from Gammarus italicus
C. P. Silva and J. Xavier-Filho	529	Comparison beween the levels of aspartic and cysteine proteinases of the larval midguts of Callosobruchus maculatus (F.) and Zabrotes subfasciatus (Boh.) (Coleoptera: Bruchidae)
R. L. Rose, F. Gould, P. E. Levi and E. Hodgson	535	Differences in cytochrome P450 activities in tobacco budworm larvae as influenced by resistance to host plant allelochemicals and induction
Izaskun Ibarguren and Juan Ignacio Ramos-Martinez	541	Modulation of glycolysis in mantle tissue of Mytilus gallo- provincialis LMK
Shugo Watabe, Hideki Ushio and Kanehisa Hashimoto	545	Purification and characterization of a calsequestrin-like cal- cium-binding protein from carp (Cyprinus carpio) sarcoplasmic reticulum
W. V. Brown, J. P. Spradbery and M. J. Lacey	553	Changes in the cuticular hydrocarbon composition during development of the social wasp, Vespula germanica (F.) (Hymenoptera: Vespidae)
D. H. Corcoran and J. A. Proudman	563	Isoforms of turkey prolactin: evidence for differences in glyco- sylation and in tryptic peptide mapping
Masataka Yoshino, Shigeo Mori, Masahiro Nakatsuka and Yukio Shibata	571	Acclimatization to hypoxia modulates the tryptophan 2,3-dioxygenase activity in rats exposed to simulated high altitude
Nihal S. Agar, Caroline D. Rae, Bogdan E. Chapman and Philip W. Kuchel	575	<sup>1</sup> H NMR spectroscopic survey of plasma and erythrocytes from selected marsupials and domestic animals of Australia
John G. Duman, Ding Wen Wu, Paul K. Wolber, Gunhild M. Mueller and Lisa G. Neven	599	Further characterization of the lipoprotein ice nucleator from freeze tolerant larvae of the cranefly <i>Tipula trivittata</i>
Hikaru Henmi, Masahiro Hata and Masaaki Takeuchi	609	Studies on the carotenoids in the muscle of salmon—V. Combination of astaxanthin and canthaxanthin with bovine serum albumin and egg albumin
C. Garrastazu, M. P. Iniesta, M. I. Aranguez and M. Ruiz Amil	613	Comparative analysis of propionyl-CoA carboxylase from liver and mammary gland of mid-lactation cow
Theodore Peters, Jr and Leslie K. Davidson	619	Isolation and properties of a fatty acid-binding protein from the Pacific lamprey (Lampetra tridentata)

H. S. Yong	625	Biochemical genetic differentiation in the <i>Trigona atripes</i> species group of Malaysian stingless bees (Insecta: Hymenoptera: Apidae)
H. Bretting, G. Jacobs, S. Müller and O. Breitfeld	629	The galactan-degrading enzymes in the snail Biomphalaria glabrata
Angela Casado, Rosario de la Torre, Encarnación López-Fernández and Blanca Ruiz del Castillo	637	Hematologic and biochemical observations in Gazella dama, G. dorcas and G. cuvieri
Jan Tengö, Abraham Hefetz, Andreas Bertsch, Ulrich Schmitt, Gunther Lübke and Wittko Francke	641	Species specificity and complexity of Dufour's gland secretion of bumble bees
Trevor R. Pettitt and Andrew F. Rowley	647	Fatty acid composition and lipoxygenase metabolism in blood cells of the lesser spotted dogfish, Scyliorhinus canicula
Tomofumi Inokuchi, Ken-ichiro Kobayashi and Shiro Horiuchi	653	Acid proteinases of the fore-gut in metamorphosing tadpoles of Rana catesbeiana
Brian Green, John L. VandeBerg and Keith Newgrain	663	Milk composition in an American marsupial (Monodelphis domestica)
Hélène Petit, Sophie Sance, Geneviève Negre-Sadargues, René Castillo and Jean Paul Trilles	667	Ontogeny of carotenoid metabolism in the prawn <i>Penaeus japonicus</i> Bate (1888) (Crustacea Penaeidea). A qualitative approach
Mahmoud Aminlari and Hassan Gilanpour	673	Comparative studies on the distribution of rhodanese in different tissues of domestic animals
C. J. Seal and D. S. Parker	679	Isolation and characterization of circulating low molecular weight peptides in steer, sheep and rat portal and peripheral blood
Michael A. Tranulis, Berit Christophersen, Anne K. Blom and Borgar Borrebaek	687	Glucose dehydrogenase, glucose-6-phosphate dehydrogenase and hexokinase in liver of rainbow trout (Salmo gairdneri). Effects of starvation and temperature variations
Jeroen van der Boon, Oscar P. A. Robertus, Ada Staal, Guido E. E. J. M. van den Thillart and Albert D. F. Addink	693	SDS-polyacrylamide gel electrophoresis of sarcoplasmic and myofibrillar protein from the white skeletal muscle of the anoxic goldfish, Carassius auratus L.
Andreas Möck and Lothar Renwrantz	699	Isolation and characterization of a lectin from the Cephalo- chordate Branchiostoma lanceolatum (Pallas)
J. A. Mitchell and HW. Denker	709	Endometrial arylamidase activity in the guinea pig: changes during the oestrous cycle, decidualization and ovarian steroid hormone treatment
Zofia Luberda and Jerzy Strzeżek	713	Purification and partial characterization of the hatching protease of Coregonus peled
M. Cammarata, N. Parrinello and M. Arculeo	719	Biochemical taxonomic differentiation between Mullus barbatus and Mullus surmuletus (Pisces, Mullidae)
	,	Vol. 99B, No. 4.
Mini-Reviews		
Geoffrey K. Chambers	723	Gene expression, adaptation and evolution in higher organisms. Evidence from studies of <i>Drosophila</i> alcohol dehydrogenases
T. Brittain	731	Cooperativity and allosteric regulation in non-mammalian vertebrate haemoglobins

General Papers		
Hoda I. Negm, Mohamed H. Mansour and Edwin L. Cooper	741	Identification and structural characterization of Lyt-1 glyco- proteins from tunicate hemocytes and mouse thymocytes
Krystian Kaletha, Marie Thebault and Jean-Paul Raffin	751	Comparative studies on heart and skeletal muscle AMP-deaminase from rainbow trout (Salmo gairdneri)
Ragnar L. Olsen, Kersti Øverbø and Bjørnar Myrnes	755	Alkaline phosphatase from the hepatopancreas of shrimp (Pandalus borealis): a dimeric enzyme with catalytically active subunits
Christopher J. Silva, Laurent Wünsche and Carl Djerassi	763	Biosynthetic studies of marine lipids 35. The demonstration of de novo sterol biosynthesis in sponges using radiolabeled isoprenoid precursors
Meilleko C. Dai, Mary J. Garson and John C. Coll	775	Biosynthetic processes in soft corals. I. A comparison of terpene biosynthesis in <i>Alcyonium molle</i> (Alcyoniidae) and <i>Heteroxenia</i> sp. (Xeniidae)
Stephen C. Trowell, Julia A. Clausen and A. David Blest	785	The principal light-phosphorylated protein of crab retina is a phosphatase
C. H. Poh, R. Yuen, H. E. Khoo, M. Chung, M. Gwee and P. Gopalakrishnakone	793	Purification and partial characterization of stonustoxin (lethal factor) from Synanceja horrida venom
Barbara P. Spike, Robert J. Wright, Stephen D. Danielson and David W. Stanley-Samuelson	799	The fatty acid compositions of phospholipids and triacyl- glycerols from two chinch bug species <i>Blissus leucopterus</i> <i>leucopterus</i> and <i>B. iowensis</i> (Insecta: Hemiptera; Lygaeidae) are similar to the characteristic dipteran pattern
Ellie O. Osir, Michael Kotengo, Mohammed F. B. Chaudhury and Leonard H. Otieno	803	Structural studies on the major milk gland protein of the tsetse fly, Glossina morsitans morsitans
James O. Ochanda, Ellie O. Osir, Edward K. Nguu and Norah K. Olembo	811	Lipophorin from the tsetse fly, Glossina morsitans morsitans
J. M. Steffen, D. Anne Koebel, X. J. Musacchia and W. K. Milsom	815	Morphometric and metabolic indices of disuse in muscles of hibernating ground squirrels
Mary F. Henningfield and Robert W. Swick	821	Unmasking of GDP binding sites on hamster brown adipose tissue mitochondria and uncoupling protein
Marcelo Antonelli, Juan Olate, Catherine C. Allende and Jorge E. Allende	827	Polylysine activates membrane-bound adenylyl cyclase from Xenopus laevis oocytes through the G <sub>s</sub> transducing protein
Samir M. Khoja	833	A comparison of the allosteric properties of 6-phosphofructo-1-kinase from the flight muscle, leg muscle, mid-gut and hind-gut of the grasshopper, <i>Poekilocerus bufonius</i>
G. B. Proctor, K-M. Chan, J. R. Garrett and R. E. Smith	839	Proteinase activities in bovine atrium and the possible role of mast cell tryptase in the processing of atrial natriuretic factor (ANF)
An-Chin Lee and Nin-Nin Chuang	845	Characterization of different molecular forms of alkaline phosphatase in the hepatopancreas from the shrimp <i>Penaeus monodon</i> (Crustacea: Decapoda)
Yukiko Matsui and Masaharu Eguchi	851	Purification and relationship of chymotrypsin inhibitors from the fat body and haemolymph of the silkworm, <i>Bombyx mori</i>
M. Garcia-Gil, D. Bottai, M. Cannizzaro and M. Brunelli	859	Effect of phorbol ester on protein phosphorylation in the central nervous system of the leech <i>Hirudo medicinalis</i> : a two-dimensional electrophoretical analysis

John P. Harrington, Michelle McElroy 865 Physicochemical properties of fish hemoglobins isolated from and Paige Newton Gulf of Mexico species G. Dufhues, L. Philipp, C. Ziegler 871 The ATPase activity of actomyosin in the presence of Cand G. Beinbrech protein and low paramyosin concentrations Amir Sagi, Ellen Homola and Methyl farnesoate in the prawn Macrobrachium rosenbergii: Hans Laufer synthesis by the mandibular organ in vitro, and titers in the hemolymph Olivier Verneau, François Renaud 883 DNA reassociation kinetics and genome complexity of a fish and François M. Catzeflis (Psetta maxima: Teleostei) and its gut parasite (Bothriocephalus gregarius: Cestoda) Aldo Di Luccia, Luigi Iannibelli, 887 Evidence for the presence of two different  $\beta$ -globin chains in Erminia Addato, Bruno Masala, the hemoglobin of the river buffalo (Bubalus bubalis L.) Laura Manca and Lino Ferrara Norimasa Matsuoka, Kyoko Yoshida, 893 Genetic variation in the starfish Coscinasterias acutispina Kiyoko Fukuda and Michio Shigei Short- and long-term effects of ammonium chloride on RNA, Yasuo Mugiya and Keiichi Sugano DNA and protein concentrations in muscle and serum in the rainbow trout, Oncorhynchus mykiss Claude Rouleau, 903 Some properties of malic enzyme and glutamate dehydro-Jocelyne Pellerin-Massicotte and genase activities in the shrimp Pandalus borealis from the Émilien Pelletier Saguenay fjord (Québec, Canada) Tadahide Kurokawa and Changes in isozymes of soluble and mitochondrial malate Hiroshi Nakano dehydrogenase of carp (Cyprinus carpio L.) during thermal acclimation Norihiro Azuma and Kunio Yamauchi 917 Identification of  $\alpha$ -lactal burnin and  $\beta$ -lactoglobulin in cynomolgus monkey (Macaca fascicularis) milk

Reproduced with the permission of Pergamon Press Inc., by University Microfilms Inc. Duplication or resale without permission is prohibited.

